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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,802	12/12/2001	Sergej B. Gashkov	L13.12-0173/00-630	9128
7590 10/06/2004		EXAMINER		
Leo J. Peters			MALZAHN, DAVID H	
LSI LOGIC CORPORATION M/S D-106			ART UNIT	PAPER NUMBER
1551 McCarthy Boulevard			2124	
Milpitas, CA 95035			DATE MAILED: 10/06/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

			_ 111
	Application No.	Applicant(s)	7
	10/017,802	GASHKOV ET AL.	
Office Action Summary	Examiner	Art Unit	1
	David H. Malzahn	2124	
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet with	h the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30). If NO period for reply is specified above, the maximum states a Failure to reply within the set or extended period for reply within the set or extended period	CATION.  of 37 CFR 1.136(a). In no event, however, may a reginication.  of days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MONTI in, by statute, cause the application to become ABA	oly be timely filed  (30) days will be considered timely.  HS from the mailing date of this comm  NDONED (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed	I on		
2a) This action is <b>FINAL</b> . 2	b)⊠ This action is non-final.		
3) Since this application is in condition f closed in accordance with the practic	·	·	erits is
Disposition of Claims			
4) ☐ Claim(s) 1-20 is/are pending in the ap 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrict	e withdrawn from consideration.		
Application Papers			
9)⊠ The specification is objected to by the	Examiner.		
10)⊠ The drawing(s) filed on 12 December	2001 is/are: a)⊠ accepted or b)⊡ o	objected to by the Examine	er.
Applicant may not request that any object	ion to the drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including t			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:  1. Certified copies of the priority of the certified copies of the priority of the certified copies of the certified copies of application from the Internation * See the attached detailed Office action	ocuments have been received. ocuments have been received in Ap f the priority documents have been re al Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Sta	age
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Su		
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PT information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date</li> </ol>		/Mail Date ormal Patent Application (PTO-15 <sub>-</sub> .	2)

#### DETAILED ACTION

### Claim Rejections - 35 USC § 112

1. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The "wherein" paragraph of claim 1 is not at all clear. How can a variable be a Fibonacci series, i.e.  $k = F_1$ ? How does the Fibonacci series  $F_1$  How can  $F_2$  How can  $F_3$  How can  $F_4$  How can  $F_4$  How can  $F_4$  How can  $F_4$  How can a number minus a variable equal a Fibonacci series, i.e.  $f_4$  is a claim 2 the "additional elements" fail to be clearly related to the previously recited structure of claim 1. Also claim 2 is mis-descriptive because the "additional elements" do not perform the functions recited in lines 5-8. Claim 4 is vague and indefinite. Where is a carry function defined in terms of a Fibonacci series? Also, in claim 4 what is meant by a minimum parameter of a Fibonacci series? Finally in claim 4 how is the carry function recursively expanded to find the minimum parameter of the Fibonacci series? Claim 14 contain deficiencies similar to claim 4. In claim 7 the phrase "negations in the carry module" lacks clear antecedent basis.

## Specification

2. On page 1 a Serial No. and filing date are lacking.

#### Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Malzahn whose telephone number is (703) 305-9762. The examiner can normally be reached on M-Th from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on 703-305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David H. Malzahn Primary Exammer Art Unit 2124